

Leak Detection for Piping

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Pressurized piping systems require two methods of leak detection; at least one method from Set 1 and at least one method from Set 2. Pressurized piping systems include gravity flow and some siphon systems.

PRESSURIZED PIPING: A METHOD MUST BE SELECTED FROM EACH SET

Facility Name

Facility ID#

UST Information: If a question does not apply, leave it blank.

SET 1- Choose one. Catastrophic (≥ 3.0 gph) product pipe leak detection.		MT TANK #	MT TANK #	MT TANK #	MT TANK #	MT TANK #
1	Is the mechanical line leak detector (MLLD) present and operational? Make and Model:	YES NO	YES NO	YES NO	YES NO	YES NO
2	Is an electronic ALLD (ELLD) present and operational? Make and Model:	YES NO	YES NO	YES NO	YES NO	YES NO
3	Is the ELLD an Automatic Shut-Off Device?	YES NO	YES NO	YES NO	YES NO	YES NO
4	Is the ELLD a Continuous Alarm System?	YES NO	YES NO	YES NO	YES NO	YES NO
5	Has the MLLD or ELLD been tested for functionality at least annually or as instructed by manufacturer?	YES NO	YES NO	YES NO	YES NO	YES NO
6	Is continuous interstitial monitoring used for line leak detection?	YES NO	YES NO	YES NO	YES NO	YES NO
7	Are all sensors positioned to detect a 3-gph leak within an hour? (Sensor at low point on sump)	YES NO	YES NO	YES NO	YES NO	YES NO

SET 2 – Choose one. Precision test or monthly method.																
8	Is an annual precision 0.1 gph Line Tightness Test (LTT) conducted?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	
9	Is the precision 0.1 gph LTT conducted by the electronic LLD?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	
10	Is the precision 0.1 gph LTT conducted using an NWGLDE approved method?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	
11	Indicate date and results of the most recent test.															
12	Are monthly 0.2 gph electronic LLD tests conducted?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	
13	If question #12 is YES, are passing 0.2-gph ELLD tests available for the past 12 months?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	
14	If question #13 is marked NO, circle the months in which passing LD tests are NOT available. 1=January	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	
15	Is the console accessible and functional?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	
16	If questions #8 and #12 are NO, check what monthly method is used. Complete the appropriate inspection page. VM=Vapor monitoring SIR = Statistical Inventory Reconciliation GW = Groundwater monitoring ISM= Interstitial Monitoring	<input type="checkbox"/> VM <input type="checkbox"/> GWM <input type="checkbox"/> SIR <input type="checkbox"/> ISM	<input type="checkbox"/> VM <input type="checkbox"/> GWM <input type="checkbox"/> SIR <input type="checkbox"/> ISM	<input type="checkbox"/> VM <input type="checkbox"/> GWM <input type="checkbox"/> SIR <input type="checkbox"/> ISM	<input type="checkbox"/> VM <input type="checkbox"/> GWM <input type="checkbox"/> SIR <input type="checkbox"/> ISM	<input type="checkbox"/> VM <input type="checkbox"/> GWM <input type="checkbox"/> SIR <input type="checkbox"/> ISM	<input type="checkbox"/> VM <input type="checkbox"/> GWM <input type="checkbox"/> SIR <input type="checkbox"/> ISM	<input type="checkbox"/> VM <input type="checkbox"/> GWM <input type="checkbox"/> SIR <input type="checkbox"/> ISM	<input type="checkbox"/> VM <input type="checkbox"/> GWM <input type="checkbox"/> SIR <input type="checkbox"/> ISM	<input type="checkbox"/> VM <input type="checkbox"/> GWM <input type="checkbox"/> SIR <input type="checkbox"/> ISM	<input type="checkbox"/> VM <input type="checkbox"/> GWM <input type="checkbox"/> SIR <input type="checkbox"/> ISM	<input type="checkbox"/> VM <input type="checkbox"/> GWM <input type="checkbox"/> SIR <input type="checkbox"/> ISM	<input type="checkbox"/> VM <input type="checkbox"/> GWM <input type="checkbox"/> SIR <input type="checkbox"/> ISM	<input type="checkbox"/> VM <input type="checkbox"/> GWM <input type="checkbox"/> SIR <input type="checkbox"/> ISM	<input type="checkbox"/> VM <input type="checkbox"/> GWM <input type="checkbox"/> SIR <input type="checkbox"/> ISM	

Suction Piping Systems: Pipe all slopes toward tank and operates at less than atmospheric pressure with a suction pump located above the level of product in the tank. Underground piping from an aboveground tank, a higher elevation tank, or piping with a liquid trap, is not suction piping. "European" style suction has only one check valve, which is at the dispenser.

17	Does product piping qualify as European (safe) suction?	YES NO	YES NO	YES NO	YES NO	YES NO
18	Does product piping qualify as US Suction?	YES NO	YES NO	YES NO	YES NO	YES NO
19	Is a precision 0.1 Line Tightness Test conducted every three years? (Indicate date and results of most recent test.)	YES NO	YES NO	YES NO	YES NO	YES NO
20	If question #19 is "NO," check what monthly method is used? Complete the appropriate compliance page.	<input type="checkbox"/> VM <input type="checkbox"/> GWM <input type="checkbox"/> SIR <input type="checkbox"/> ISM	<input type="checkbox"/> VM <input type="checkbox"/> GWM <input type="checkbox"/> SIR <input type="checkbox"/> ISM	<input type="checkbox"/> VM <input type="checkbox"/> GWM <input type="checkbox"/> SIR <input type="checkbox"/> ISM	<input type="checkbox"/> VM <input type="checkbox"/> GWM <input type="checkbox"/> SIR <input type="checkbox"/> ISM	<input type="checkbox"/> VM <input type="checkbox"/> GWM <input type="checkbox"/> SIR <input type="checkbox"/> ISM

Comments:

(Inspector's Initial)

(Date)

(Owner/Operator's Initial)

(Date)